The Ether Ship Mystery and its Solution

FLYING DISCS

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For Your Information

The SPACE CRAFT will not run on magnetic propulsion beyond the ionosphere. The ionosphere would destroy any magnetic sink between the craft and the earth. Beyond that limit they operate on solar energy. There is almost no effect of the earth's magnetic field beyond the ionosphere. The magnetic field will change according to the density of the nearest body. The craft will depend almost entirely on the solar energy. The colors noted about these craft are not due to temperature changes, but to electronic changes. No earth metal could stand such heat changes without becoming very brittle. It is the play of electrons produced by the solar radiation on the body of the craft and produces conditions similar to those that cause the aurora borealis.

NATALLI, Nov. 3, '54

THE ETHER-SHIP MYSTERY AND ITS SOLUTION

(A booklet for public information)

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Prepared by Meade Layne, M. A. Co-Director of the Borderland Science Research Associates, with the cooperation of Associates Millen Cooke, John A. Hilliard, Edward S. Schultz, Co-Director Max Freedom Long, F.H.F., and other observers and investigators of the Association.

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PREFATORY NOTE

No attempt is made in the following pages to 'prove' the objective and factual existence of the 'flying discs' and other strange sky-craft, since on this point there is no longer any doubt.

On account of the great variety in shape, color and behaviour of these flying objects, a generic name is needed. The term Ether Ships or Ether Craft has been adopted, since it indicates the true nature and origen of all these diversified phenomena.

The Borderland Sciences Research Associates do not constitute or represent any cult, organization or special interest. They are free-lance investigators of phenomena with which 'official' science, for one reason or another, does not deal. The material contained in this booklet is believed to be of great importance and is presented as a public service, and the Associates welcome the cooperation of persons sympathetic with their attitude and objectives. A further memorandum concerning BSR activities will be found at the end of this booklet.

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THE ETHER-SHIP MYSTERY

AND ITS SOLUTION

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The series of aerial phenomena which are here described under the term "ether-ships" first attracted public attention in the fall of 1946. It was by no means the first appearance of these craft in the skies of our planet, but very few persons were aware of this fact, and the public as a whole at first refused to credit the reports at all. The newspapers, the radio, and many psychologists and scientific workers joined in discrediting the alleged facts, and in attributing them to delusion or deliberate falsifying. Nevertheless the evidence continued to accumulate, with most circumstantial and detailed reports from competent observers, until finally a systematic investigation was undertaken by the United States Air Force.

The outcome of this was indeed curious, since after some two years of study of the phenomena, the Air Force has recently announced officially that there is no genuine and factual basis for the reports. The explanation for this will doubtless become clear at some future time. The public, however, shows no sign of accepting this remarkable pronouncement. New reports of the strange sky visitors appear almost daily, and their existence is definitely established.

The purpose of these pages, therefore, is not to argue the case for the existence of the "discs" or "saucers" (since the data would run to some hundreds of pages), but rather to present as simply as possible the true nature and meaning of the phenomena. It seems to us important, and in the nature of a public duty, that this be done. There is already apprehension in the minds of many, and if (as we expect) many more striking events should occur, there is some danger of panic. If these visiting craft are attributed to some foreign and unfriendly government, hostility and fear might develop; and if they are believed to come from some other planet of our solar system, unreasoning and superstitious fear is to be reckoned with, perhaps with a considerable degree of social disintegration. This latter hypothesis, in fact, is already being advanced in all seriousness, though for no better reason than that no other origin seems conceivable. Yet there is another possible source (and we are convinced the true source) for these strange craft, and the time has come when this explanation must be made available to everyone, in the simplest terms possible.

Unfortunately, not 'everyone' will find the explanation easily understandable. It cannot be disposed of by a word of one or two syllables only (such as 'Mars,' 'Venus,' or even 'Russia'), but re-

quires a little sustained attention and mental effort. On the other hand, the interest of most of our readers will not be in the physics and speculative science involved, but in a few eminently practical questions, such as -

WHAT ARE THE FLYING DISCS?

WHERE DO THEY COME FROM? WHO OPERATES THEM?

WHY DO THEY COME INTO OUR SKIES?

ARE THEY FRIENDLY? ARE THEY DANGEROUS?

An answer to these questions, if it can be given, will probably satisfy the active curiosity of most readers. To those of a more reflective mind, and to the scientist, philosopher, and non-dogmatic religionist, such answers, baldly put, will be only a shadowy beginning or perhaps too fantastic to reckon with at all. But for our present purpose we shall neglect these tough-minded and critical folk, and answer our own questions in a most categorical way.

WHAT ARE THE FLYING DISCS? First, let us say what they are NOT. They are NOT delusions, fantasy, or lies. They are not constructed by any foreign government, or by our own. They do not come from the depths of the sea - though some of them may enter the sea at times. They do not come from the Polar regions, or from Tibet or Java - though it is conceivable that some temporary base on our earth may be utilized. They are not constructed in the earth's interior - though they may have some connection with underground races or be interested in them. They are not constructions of the Atlanteans or other ancient peoples, preserved in caverns against a coming day of need. We mention these hypotheses because they have all been seriously advanced. Our categorical denial should really be read this way:

"We have no evidence that any of these explanations is correct, and none of them coincide with what we believe to be the correct facts. But we offer the first word and not the last in this matter. New data may appear at any time."

To these denials let us add, the etheric craft, the Discs, do NOT come from any other planet*of our solar system, or from any other heavenly body known to us. So far as a popular explanation exists, this planetary one is most in favor. The reason is obvious and the reasoning goes this way: The Discs are not made on this earth - yet they are real and not illusionary - therefore they MUST be made on some other planet*- presumably Mars or Venus, since these are the nearest. This reasoning, however, suffers from what logicians call an 'omitted middle', or a third-somewhat, an alternative which is overlooked. "Can you build a better mousetrap?" asks a magazine writer recently, clearly distrusting his own planetary theory yet unable to think of anything else. We reply promptly, we certainly can. The simplest description of this 'mousetrap' is our present

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*NOTE: by "planet" we mean the visible astronomical body only.

objective, and if your patience permits we shall try to make the whole concept reasonably clear - though not necessarily acceptable to your personal thinking, of course.

What are the Discs and where do they come from? We shall have to combine the questions and the answers. They come from the region of existence called the Etheric Plane, or Etheric Level - and by us with the name ETHERIA.

Who operates them? The Etheric people - the Ethereans.

Are they friendly, or hostile, or dangerous? Neither friendly nor hostile on the whole, but mainly indifferent toward us. But they are not indifferent if we attack them, or pursue and annoy them, or make them uncomfortable (apparently) by our atobombs, the release of atomic or nuclear energies.

Further on this point: It is likely, not provable, that our air-force has already lost more than one ship through their attempted interference with these etheric craft. It is believed and is probable that they are surrounded by a powerful magnetic field, or some force corresponding to it, which easily disintegrates our own air craft. It is likely that the release of atomic energies is felt on the etheric levels with some discomfiture. It is possible, though wholly con - jectural, that they might intervene to prevent a world war with atomic weapons, and especially with such a weapon as the proposed hydrogen bomb.

But then, why do they come into our skies at all? Two reasons can be suggested, or two aspects of the same reason. These etheric craft have appeared at intervals throughout history, sometimes without definite correlation with earth events, but always (it is said) when a civilization or culture had reached its peak and was entering upon a period of decline and fall. Their purpose was simply to ob - serve and study the conditions and state of humanity, for their own information and their historical archives. They have also appeared prior to terrestial convulsions, such as volcanic eruptions and earth quakes. In the present instance, it is likely that both reasons exist. The social and political state of the world is indeed parlous, our weapons have become a menace to the Etherians themselves, and it is said that seismic disturbances are impending. Over the Pacific Slope, for example, the flight of the ether ships has followed the magnetic meridians, north-and-south. It is said that the Etherians are doing this in order to observe the formation of the etheric vortexes which presage an earthquake; they are charting this area, and also the whole of the earth's surface, for the same general purpose of scientific study.

Now, whatever you think of the ideas and explanations here advanced, remember that there is nothing vague and uncertain about the presence of these strange craft, or about their remarkable speed and power and complete superiority in the air. This is an intensely practical matter - and how far-reaching it may be, no one can say. This means that our personal attitude is also a matter

of practical concern. Let us remember that the Etherians are not ill-disposed toward us, that we should NOT fear them, should never attack them. Further phenomena are almost certain to occur - and may be of the most remarkable kind. Panic and superstitious fear may seize upon the masses. It may happen that a considerable measure of responsibility will fall upon those of us who have some measure of understanding of what is taking place. Heretofore the Etherians have withdrawn quietly when their mission was completed; men thought of them as Gods or Angels, or spirits of the air or demons, embodied them in folklore and mythology, forgot them little by little. So it may be, this time. They may withdraw from our skies, and in a few months men will have almost forgotten them. But there are reasons which cannot be elaborated here, for believing events may take another and more striking course. Neither your will nor mine can stay these events, but fear, fanaticism and panic may work incalculable woe. Panic is contagious, it engulfs one like an enormous wave, and at the moment we fancy ourselves cool, calm and superior of mind, we are dragged under by it. No other consideration would lead us to write these pages, which will for the most part be read with derision or wholly disregarded.

One other matter of immediate practical interest - the inevitable question, WHERE is Etheria? (If you think where is an easy question, go put it to philosophers!). But some answer must be made, so here is a reply in a few lines, to be elaborated perhaps on subsequent pages.

Etheria is here - if we know what here means! Along-side, inside, outside our world. Because our world, that is, the so-called dense matter of the objects in our world, is a rarefaction. It is spaced out like a vast net - a net with enormous meshes. Imagine, if you will, a net of wire with meshes a mile wide. Would not wind and water flow through that net as if it did not exist? A little friction, very, very little! On the strands of those meshes we live. That is the so-called dense matter of our world. We look out across the mesh and do not see anything in it, or hear or feel anything in it, and so call it empty space. Meaningless words in the abysses of folly! We see, hear, feel the other strands of the mesh, and call our world solid, firm, and material! Call it a real and substantial thing! But the 'spaces' of the mesh are a thousand and ten thousand times greater than the substance of the strands. What is in these spaces of the mesh of our 'matter'? Space? Space is not nothing. Space is stuff, is matter. What kind of matter? The matter which makes up the ethers. More dense - not less, but more dense by far than the rarefactions of our world. The matter of the Etheric world! Inside the molecules, inside the atoms, other atoms - still other atoms inside of those, or ten thousand Chinese eggs each inside of another. If you think this is imagination, or that there is no 'room' for these interpenetrating universes - ask the physicist and mathematician. He will tell you, there is nothing in the omniverse but room- and room, again, is space, is stuff, is basic world-stuff, mind-stuff, life-stuff, and there is no emptiness anywhere. -- And that is why Etheria is HERE! But it is also elsewhere. All heavenly bodies have an etheric realm.

A few lines more and we shall have done with the more 'practical' and pressing aspects of our subject. The etheric 'ships', as everyone now knows, are of many types, not all of them 'Discs' by any means. Some are long and cigar shaped, many are shaped like balloons or dirigibles, some have wings or wing-like attachments. Many of them appear to change shape while in the air. Their color varies also and has also been seen to change. Some of them resemble 'fire-balls', others are accompanied or followed by smoke, vapor, and luminous appearances. Some are translucent, or seem to glow from within. They travel at all speeds, from zero (stationary) to thousands of miles an hour. They also vary widely in size, from a few feet or yards in diameter to nearly incredible dimensions; we have reports considered trustworthy of at least one craft ten miles in length. They have a curious way of disappearing suddenly when in plain sight, and also of rapidly dwindling in size without withdrawing in distance. It is well to bear all these items in mind, since any single explanation must obviously cover all of them; it is not enough to invent some theory for the disc-shapes alone and then imagine that the whole matter is accounted for. Now, under the "etheric explanation" which we are presenting here, our understanding is briefly as follows:

All of the types of 'craft' just mentioned come from the same source. All are constructed by the Etherians. Their variety arises from the fact that many of them are experimental, and that different types of them serve different technical purposes. These craft are built in matter of the etheric plane and are imperceptible to us, since they exist in what we call 'empty space'. They enter our plane or our level of perception by a process of materialization. The extremely dense matter which fills in the pattern of etheric stresses is replaced by matter of the kind which is visible to us - or better, its vibration rate is lowered until it becomes visible. A little like slowing down a very fast fan until one can see its blades. This is closely similar to what happens in the phenomenon of apportation (where objects, of any kind or size, are 'miraculously' transported into and out of sealed rooms, sealed containers and the like). Many people, and most scientists, take no stock in this alleged phenomenon, but it is well attested and cannot be surrendered on that account. Neither the pattern nor the molecular 'filling' is destroyed; the object becomes invisible because the atomic motion is speeded up, and it can pass through other matter (a wall, e.g.,) because of this same fact. This is equivalent to an increase in density when an object on our plane is being apported from one place to another. To an Etherian, an object materializing on our plane would dematerialize on his; to us it materializes in our field of perception, and dematerializes when it returns to its etheric state.

If we understand this, we are on the way toward accounting for many odd items of behaviour, such as have been mentioned above.

It is probably well-known by this time, that several of these ether ships have fallen, and their contents carefully studied - although with utmost secrecy. We cannot enter here upon this part of

the story, which we have printed elsewhere*; we wish to refer only to the 'little people', 'dwarfs' about 30 inches in height, whose bodies were found within the Discs. We have reason to believe that the Ethereans, who must operate on their bodies just as they do on the etheric substance of the disc in order to accompany them, choose to materialize in small forms, simply for convenience of operation and flight. This, like everything else set forth here, is according to our best knowledge and belief at this writing. We repeat, that we are offering the first words and not the last on this extraordinary problem.

The propulsion of the etherean craft is beyond the present concepts of our science - yet we have a good clue to its nature, and shall comment on it on a later page. (There is no motor, propeller or other mechanism inside the fallen discs, so far as we have been able to learn).

We must add the extraordinary fact, that under certain conditions, or at certain stages of materialization, or at certain altitudes and pressures, the substance of the ether-ships is jelly-like and actually does change in shape and apparent size. (The outer skin of the fallen discs, however, is harder than steel, and of an unindentified substance).

It is our information that certain types of the ether ships are and have long been used for inter-planetary travel. Those who persist in the belief that they come from visible planets of our system, will eventually seize upon this as a confirmatory fact. But the ether-ships do NOT originate on visible planets, as we have said. Interplanetary travel is simply one of their innumerable uses, and this fact should not mislead us. The craft are made in Etheria, and Etheria is in and around all visible objects. It is also the home and motherland of our plane, all the objects we see about us derive from that source, and our own bodies also. We ourselves are Etherians by ancestry and descent, for Etheria is the home of the human race. That we should be so grossly ignorant of it, is strange indeed.

It is this ignorance, and the kind of understandable intolerance which must accompany it, which makes it so difficult, almost impossible, to explain this matter to many readers, not excluding the average scientific worker, the professional man, and the so-called intellectuals generally. The obscurantist effects of the academic and professional background are in fact well-known, except to those most afflicted by them. There are, however, some millions of people, less victimized by the 'hypnotic dreams' of our pseudo-culture, who will well understand what we are trying to set down.** ----------

* In Round Robin and other publications of the Borderland Sciences Research Associates, publishers of the present pamphlet.

** "The next chapter in the story of European culture will be the story of the light from the Other Side". (Egon Friedell, Cultural History of Europe, end Vol.II).

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Having now disposed of the more urgent issues of this subject, and following on the intermission (explained in our note *), it seems best to refer again to the subject of this Cloud-Cuckoo-Land of Etheria, and the possibility, probability, even the necessity for its existence. We refer to it under this mythical title because most people, though they believe in heaven on Sundays, and in hell when misfortune pursues them, are quite unable to believe that Etheria, being invisible, unheard and untouchable, has any "reality" about it at all. We do not blame them particularly, at least not as much as we do some of our speculative physicists who are already up to their necks in Oriental metaphysics, and hence should be reasonably open-minded. Yet it may be possible to invest the idea with a certain sweet reasonableness for a time, even though our indomitable common(non)sense rejects it soon afterward.

If there are colors we cannot see, sounds we cannot hear, and dense and solid bodies which we cannot discover by touch, it is certainly not too difficult to conceive of a world which though possessing sounds, colors, and material objects, is yet imperceptible to us. It would be as unknown to us, by direct perception, as a man is to an ant, or a bird to a beetle. And if ant or beetle, or a fish in its element could be questioned and could make reply, they would probably be deeply sceptical about the existence of men and birds - unseen and unseeable entities alleged to be living right along-side of them in the same world. This is, obviously, a matter of what are called planes of consciousness or awareness, and not really in the "same" world at all. The ant world is the nest or hill, the fish world is a limited area of the sea; and though it happens that man can peer in on both of them, they have no way of discovering him. At this point the fruitful principles of analogy suggest, that possibly there are invisible beings who can peer in on man also. He may be the "crux" of creation (or cross of affliction of it) but is not necessarily its crown. And though reputed to be a little lower than the angels, this earth manifestation of him at least may be but little higher than a caterpillar, in the eyes of unknown but observing Intelligences. This somewhat

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(* It has been the practise of the present writer, when attempting to lecture on this subject, to allow a brief intermission at this point, before entering on even more fantastic excursions. At this time the more outraged hearers were free to withdraw, noisy sleepers could be admonished, and if the entire audience, often as many as twenty peopbe, chose to depart en masse, a refund of one-third the admission money was usually sufficient to insure a peaceful exit. The advantages of this plan were so great that it has here been imported into written composition also, the intermission taking place at the beginning of Section numbered II, above).

despiteful guess, however, is a little by the way; we intended to return to our high school physics("Make me a child again just for to - night") - with reference to our perception of sound and color.

Of course, if you define sound as sensation, as audibility, then by definition there are no sounds you cannot hear. If you define color as seeing, as visual perception, then by definition there are no colors you cannot see. But the physicist knows that colors are distinguished from each other by their wave lengths, and the length of the waves has been measured. Red, for example, has a wave length of 0.00007594 centimeters, while violet, at the other end of the visible spectrum, is 0.00003968. All the other colors come in between with decreasing values. But that does not mean the series or scale of color is exhausted; the tabulation of wave lengths goes right along below the red and above the violet. It is only our ability to see them which runs out on us. Using the word color in this very correct and logical sense, it is plain that an object may have a color which we cannot see - and will therefore be invisible to us.

The situation with regard to sound is of course analogous. Some people hear sounds which others cannot; many savages and nearly all animals have an almost miraculous acuity of hearing, and the existence of inaudible sound vibrations is a commonplace of science. A whole new science of ultra-sonics is now fast developing. The point is too obvious to spend time upon - there are sounds all about us which we can't hear, just as there are colors we can't see.

There may be, then, according to commonsense and common science, a world of sound and of color, and even of colored objects all about us, yet wholly unperceived by us.

All this, as we promised you, is sweetly reasonable. But now we come to the sticker. Everyone knows, you say, that there are waves, frequencies, vibrations of sound and light which we cannot sense - but what about this matter of touch, of tangibility? We do not see or hear the cat on the rug or the antic rocking chair with its hundred arms, when we go groping and fumbling around in the dark; but we soon discover them in another way. Soundless and colorless objects are at least tangible, and if there is a world-full of them all about us, why do we not feel them, make contact with them, discover them by instruments? If there is such a world, you say, it must be vaporous like air or gas, or emanations, radiations or rays.

The objection is natural, legitimate, and answerable - but to begin, we must make the difficulty seem worse by affirming that this unseeable and unhearable world is composed of matter which, far from being like a vapor or gas, is a thousand times more dense, more solid, 'real' and 'material' than the objects of our own plane. There is such a thing as matter, substance, 'stuff' which is too dense to touch. We were talking, a few lines back, about the spectrum of color and of sound. We must now consider that by analogy at least there should be a 'spectrum of touch' or of tangibility also.

There really is such a spectrum, and the 'upper' limit of it is familiar to everyone. When solid matter is vaporized we cannot

touch it or (usually) see it, nor can we 'feel' the presence of most rays, radiations and emanations. The difficulty, then, is about the 'lower' end of this spectrum. We are accustomed to thinking of very dense matter, such as a stone or brick or lead, as being especially 'real' and tangible, and of fluffy, light, floating things as approaching an intangible condition; yet here we are affirming that stuff which is far more dense than lead or stone cannot be touched at all, just for that very reason. Either we are talking nonsense, or our habitual commonsense view of the world is very naive. To get straightened out on this we shall have to ask ourselves a few questions.

Let us suppose that we have before us two small cubes, one of cork and the other of lead, and each the same size - say, one inch in each direction. The lead cube, as we know, weighs more (the pull or push of gravity on it is greater than on the cork), and has more mass (which refers to the quantity of matter in it), but it has the same over-all volume as the other cube. Now imagine that we can exert a very powerful pressure on all sides at once, of this lead cube, so that it is compressed. That means that the particles of lead are forced a little closer together. Imagine this pressure continued and increased until the cube becomes a half inch, a quarter inch, or a 16th of an inch in dimensions. Imagine it decreased to pin-point size, and then to a point where it becomes microscopic, invisible. All of the original cube is there, all of its mass and weight; only the volume has changed. Suppose this ultra-microscopic cube is hurled against the cube of cork. Will the latter stop it? This enormously heavy and extremely small particle will pass through the loose structure of the cork as if it were not there at all. The cubic inch of lead, by virtue of becoming thousands of times more dense than the cork, by the process of reducing its volume, penetrates the lesser density with ease.

What else has happened inside the cube of lead as it was com - pressed? Leaving aside all the books-full of fact and theories about the atom, let us concentrate on the single fact that every constituent particle of the lead is believed to be in motion. When a particle moves it has a track or path, there is distance involved, and also speed or rate of movement. Suppose you have a pointer of some kind which is switched back and forth across a dial, say, a one-foot one-way movement in one second. Cut the 1-ft. motion down to six inches without changing the speed. The pointer will then cover the same distance in the same time, but it will pass over a six inch space twice, instead of over the 12 inch space once. It will have a beat or frequency of 2, as a result of shortening its path. Now when we compress the cube of lead we may conceive that the paths or tracks of the motion of its particles are shortened or distorted in some way; their speed is not changed but their frequency or vibration rate is increased. The lead remains lead but the electrons and nuclei of the atoms are a trifle closer together. If we kept the cube in its original size but pressed more lead into it, the effect would be the same; the density would be increased, and so would its mass and weight.

We have used the word <u>speed</u>, and properly speaking this means

rate of motion in any direction. Velocity properly means speed in a definite direction. Speed is measured on a scale and has magnitude only, but velocity has both magnitude and direction (a vector quantity). If we change either speed or direction we get a change of velocity. These are questions of correct mathematical usage; but all we are trying to do here is a little crude picture-thinking, to see how the density of matter is related to the speed or velocity or vibration rate of its particles. Density is the quantity of matter per unit volume. Increased density and increased speed of the atomic particles go together. Mass increases with velocity and with decrease of size. Our ultra-microscopic lead cube has an enormous mass, a very small size, and a very high velocity of its particles, and a high density. These characteristics will make it penetrative, so that it will go through the corkor any other less dense matter like wind through a wire mesh.

It should be clear by this time, that if we take any substance, any object, and make it extremely dense, we decrease its volume until we cannot see it or touch it. At a certain density we reach the 'lower' end of the 'spectrum of tangibility' and of seeable colors.

We spoke on a previous page of the fact that the so-called dense matter of our world is really a rarefaction, a kind of thinning out of some kind of very dense stuff called space, or the ethers. But when we talk about compressing a cubic inch of lead down to a size where it is invisible, we seem to be offending common sense again. Even if the lead is a "rarefaction", you may say, it can hardly be as tenuous and rarefied as all that. But let us look at this in the light of scientific facts. Suppose an atom to be so enormously enlarged, with all its distances kept in proportion, so that the orbit of the electron (if it has an orbit) has a diameter equal to that of the earth about the sun, say 184 million miles. On that scale the diameter of the electron itself will be only 2000 miles, and the diameter of the nucleus, where mass and weight chiefly lie, can be taken as two miles only. A central mass two miles thick, another object 2000 miles thick at a distance of some 92 million miles! Evidently, plenty of room inside this system. And what do we mean by room? We do not mean nothingness, but space - and space is not nothing, it is identifiable with the ether(s), and the ether is matter of extreme density. It is so dense that we cannot see or feel it, and its friction as it flows through the kind of matter we do see and touch is so minute that our instruments have not yet detected it with certainty. In this dense matter, inside the system of any atom or congregation of atoms of our world, there may be other worlds, and worlds within these also - 'world without end.'

The physicist will say that for him the centers of the atoms, the nuclei, seldom approach each other much closer than one angstrom- which is a hundred-millioneth of a centimeter. A negative electron has a diameter of about 35 millioneths of an inch, so that it would take about 30,000 electrons, touching each other, to measure one angstrom and reach from one nucleus to the other. Consider the com-

parative vastness of the space which separates-and-unites the parts of the atom. It was to illustrate this that we 'magnified' the atom mathematically in the last paragraph. How many other atoms may lurk unseen in these huge 'stellar' interspaces!

We spoke of the nucleus of the atom as holding nearly all of its mass and weight. The lightest atom is hydrogen, and its mass is nearly 1840 times that of a negative electron. But it is not larger in volume - let us take good note of that. "The larger the mass the smaller the diameter" is axiomatic in present-day science. The negative electron has the greatest volume of any individual body in the atom. "If the distance from center to center of nearest atoms is, say, two angstroms, and if the negative electron is of the order of 10^{-13} (or 1 over 10-plus-13 ciphers) the volumes are to each other as the cubes of these figures, or 10^{15} (10 plus 15 ciphers). That is to say, the volume of the atom is 10^{15} times as much as the volume of one single negative electron." *

A diamond is a very dense substance (3.55 times as dense as water). Suppose we could put such pressure on a diamond that it was crowded into a density equal to that attributed to the star Wolf 457 - or to 500 million times the density of water. (Wolf, by the way, has a mass 60 times that of our sun but is only about half the size of our moon, some 3000 miles in diameter: "the greater the mass the smaller the diameter"). Well, a cubic inch of our condensed diamond (or of the star mentioned) would weigh about 9000 tons on our earth. Yet the nuclei of its atoms would still be distant from each other, from 10^{-10} to 10^{-11} centimeter. This means that the distance between the nuclei of its atoms would still be between 10 and 100 times the diameter of the atom itself.

Do we still think that our cubic inch of lead is already highly condensed - too dense to be compressed very much? Or that there is no 'room' inside it, inside the systems of its atoms?

This is the land of Etheria, Eden-land and homeland of our race. Theosophical writers have used a helpful illustration. Fill a large bucket with large stones, then with small stones, pebbles and gravel thrown in also. Add sand to the brimful, then you can still add water in considerable amounts. All these things, in a sense, and if by space you mean the size and shape of the bucket, are in the "same" space. So, if our world be a sand grain, note how many other worlds great and small may be in the same cosmic container along with it. Not a very accurate illustration, of course. Things do not 'really' occupy the 'same' place; it is only that the enormous places we call empty are all filled up. Forget about the atoms for a moment and look about you in common three-dimensional space. How much of it is 'filld' even to our sense perceptions? Do you really think that there is nothing between you and the wall yonder, or the tree, the city, the

* Crehore, Atomic Theory, 1942

mountain in the distance, the height of sky overhead? Does the idea of nothingness make any sense - if indeed one can have such an idea at all? No philosopher has ever made profit from such a concept. "Out of the Void" we read, this or that issued forth - but again, ex nihilo nihil fit; and from Nothing no thing was ever born. Even the scien - tists, wary of picture-thinking, were gravelled by this difficulty. Actio in distans, they used to call it - or the problem of action at a distance. Hold a magnet over a nail and a miracle occurs, the nail jumps as if prodded by demons, yet "nothing" seems to connect the two. 'Well then', reasons the experimenter, 'we shall have to invent some- thing to connect them' (just as, 'if there were no God man would need to invent one'). 'We shall invent, or rather postulate the ether. A postulate, if you please, is a 'necessary assumption'. Lines of force, stresses, a magnetic field all make it necessary to assume a space- filling medium. And this cosmic filler-in, or postulate, or ether, was for a long time an immense convenience, also an immense embarrass- ment. It was necessary, and it was inconsistent, matter and non- matter, stuff and non-stuff. Came Einstein, came the dawn (or did it?) and a great sense of liberation with him. Mathematically speaking the ether was no longer necessary; we can use the concept of space instead. That shut one Pandora box, even while it opened another one. If the mathematicians are relieved, philosophers and metaphysicians have hard- ly shifted their ground.* But to go back to the 'nothingness' which lies between you and the mountain yonder, or betwen your eye and your outstretched hand (as if nothing could lie anywhere!) With such a concept, or alleged concept, you cannot think at all. You merely cease thinking and utter certain verbal sounds. Rosicrucians have a phrase for it; 'space is the unperceived aspect of reality'. More basically still, it is a form or aspect or condition of consciousness which attends on experience. We must refuse this inviting by-path, which would lead us as far as the galaxies at least, and humbly invite you to sit down and look at space for a few minutes - even if you can't see it! Stop looking through it at the thing beyond, and try looking into it instead. If you practise this a bit you'll begin to see the graining of it, something like heat waves but not in motion. That is said to be the aura, and maybe it is, but it's a profitable hint. If you kept on looking, conditioning your eyes, you might learn to see many things in this 'nothingness', maybe even an Etherean friend or two occasionally, or 'marvellous cities builded in the blue' as do the Hindu seers. But don't make the mistake of telling psychiatrists, medi- cal men and psychologists about this- you have three guesses why.

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* One curious fact came to light in connection with the development of Einstein's equations. The mass of a body (the quantity of matter in it) increases with velocity, when the velocity approaches that of light. Mass therefore is a function of velocity. If volume remains constant, and the velocity and hence the mass be increased, the den- sity, or quantity of matter per unit volume, is also increased. This obviously restates much of what we have said about the nature of density and of the etheric worlds.

- III -

Since (to repeat) this booklet is issued in what we conceive to be the public interest, it is important to avoid the appearance of serving any particular creed or cult or School or other organization. We are dealing with an intensely practical and factual situation - the visitation of the ether-craft - and with problems arising from it. The writer and his associates believe they have an explanation of these craft which is basically correct; and it is their hope that it will be examined in the light of all available data, and also from a rigidly scientific point of view. They have used information from every accessible source, and some of these sources would doubtless be discredited a priori by many readers. No one, however, is asked to respect such sources, or any alleged authority, per se, but only to listen critically to what is said if his interest is sufficient, and thereafter to form his own opinion.

Those who wish a simple statement of the main issues involving the 'Disc problem' will perhaps find all they care for in Section I of this booklet. Those who care to go a little further into the scientific concepts will find them sketched in Section II. But it is almost certain that these ether craft were known in antiquity, and that at least a few persons of unusual training or gifts have always understood their origin and purposes. And it is entirely certain, and a familiar fact, that the ancients knew a good deal about "Etheria", that is, about the etheric 'planes' or worlds. Whether the reader has any interest or confidence in this lore, is his own business. But from our point of view, <u>all</u> data, real or alleged, about Etheria is pertinent and contributory, and we believe a good many people are interested in it. We therefore devote a few paragraphs in this section III to this topic.

In doing this we shall simply quote excerpts from a booklet previously issued*, without attempting to reorganize the material. The whole of this present booklet, in fact, has been compiled under difficulties and makes no pretense to skilful presentation. The quotations follow:

"You ask, 'If this improbable Etheria really exists, how is it that we do not know about it?' Well, it has been known, in varying degrees, to adepts and initiates and occultists for thousands of years. It is like scores of other facts of great importance - the commons have never understood nor really wanted to understand. There has always been a store of secret knowledge in the world - and in fact all advanced technical knowledge is secret in a sense, to all except the few who can understand and apply it. Of course,

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* "The Mystery of the Flying Discs"; Addenda to booklet # I. June, 1948. Borderland Sciences Research Associates.

Etheria is 'incredible'! It happens to be a new fact, a new light on the horizon so far as common knowledge is concerned. X-rays and radar and the radio and atomic fission and a score or a hundred more are 'incredible' new facts also, yet it is likely they were known in old time. But if 'incredible' and 'impossible' mean the same thing to you, we are wasting your time. . . . .

"For those interested in what is called 'occult' or 'esoteric' ideas and philosophy, the subject of the ethers is familiar. The various Schools employ varying terminology and different classifications of the planes and worlds, but their basic concepts are very similar as far back as we have any information about them. Perhaps the most familiar classification of the ethers is four-fold, and includes the (1) chemical ether (2) the life ether (3) the reflecting ether. These appear to be different aspects of the etheric world, and it is through them that all the forces of life flow into the organic forms of plants, animals, and men. And Cory's translation of "Ancient Fragments" quotes one of the Chaldean oracles as saying, "From the ether have come all things, andto it all things return; the images of all things are impressed upon it; it is the storehouse of the germs or remains of all visible forms and even of ideas." Blavatsky writes (Isis Unveiled, Vol. I p. 284): The universal ether, in the eyes of the ancients, was a boundless ocean peopled like our familiar seas with creatures large and small, and having the germs of life in every molecule," and "here too dwelt the various races of elemental spirits." Again (I.U. Vol. I, p. 310)" The privation of a form (i.e., its abstract idea) when transmitted to the ether, becomes material." Refefences to this topic, however, in Isis Unveiled and the Secret Doctrine, appear to be very few. . . . ".

Concefning the Lokas: As we have pointed out elsewhere, these sky phenomena have a great many forms, and the word Disc describes only one type of them. A generic name covering all the shapes or types has long been needed, and the BSRA publications, several years ago, proposed the word Loka, or Lokas; whether or not this term can be acclimatized, it brings up the Loka idea or concept as it exists in Oriental philosophy. It is worth while saying a few words about this because Etheria, the etheric worlds or planes, and the Lokas are to a considerable extent identifiable. It may be helpful to some of us, if we clearly understand that Etheria, and the ether-ships, and etherian peoples are not new knowledge in the world, but have been known for thousands of years; they are merely new to us because of our ignorance.

The word Loca itself is originally no more than the Latin locus, a place. A Devaloca is the place of the Devas, and Kamaloca is the place of Kama or desire. In Theosophical usage it is about equivalent to 'world' or 'sphere' or 'plane'. Another word, Tala, is inseparably connected with Loka, and may be understood as the material aspect of the latter. In occult thinking, every plane has an inner and an outer aspect. Here on earth, for example, we have a type or form of consciousness which functions in a certain way, and also the matter or substance or kind of manifestation with which this form of consciousness can deal. This corresponds to the terms subjective and

objective, and roughly to the distinction between Loka and Tala also. The two aspects are as inseparable as the two poles of a magnet. And it is customary in exoteric philosophy to refer to the Lokas or Loka-Talas as being seven in number. These are often thought of as spheres concentric with our globe. The first was said to extend to the upper limits of our atmosphere, the second as far as the Pole Star and including the planets. One writer on the subject states:

> "Physically considered, these 'planes' are distinguished by varying rates of vibration; spiritually considered they are varying states of conscious awareness. Substance on earth as men know it takes on the tangibility suited to earth consciousness on the lower etheric, and it is from this region that sky phenomena burst into view, and also physical and psychic phenomena. At death man's sojourn in the lower etheric is very short. But he does not enter the higher etheric, but goes right on through it, with no consciousness of it, to the lower astral."

"The etheric worlds or Lokas are regarded as spacial and temporal regions of existence which interpenetrate with our world of (more rarefied) matter, and also, in their 'higher' aspects, with the the 'lower' levels of the astral. Our physical plane includes the lower and higher etheric, but some four-fifths of it lies outside our normal range of sense perception. In this etheric region there flourish civilizations and cultures, and a race of beings which are born into that world and die there. They are NOT excarnate humans. They have knowledge of our world and can and do penetrate it. Many dwellers on the astral plane are aware of the etheric worlds also, and have the power of visiting them. This ability, however, does not seem to be a common and natural endowment, but belongs to persons of a certain degree of development, corresponding to those whom we here call Adepts, or possessed of exceptional psychic powers of projection or clairvoyance. Anyone, in short, can function on any plane for which he is prepared, and astral vision and astral travelling is fairly common because of our interest in the after-death life; but the etheric regions have been little explored. Yet they are in many ways the most important of all, since they hold the key to ALL the phenomena of our earth life, and to the origin and history of our race. . . ."

It is certain that exploration of the etheric regions has been greatly neglected even among Western occultists, probably for the reason mentioned in the foregoing paragraph, and the whole subject is practically a sealed mystery to Western science - although, as has been said, it was found necessary to invent an ether as a universal medium, if 'action at a distance' was to be made intelligible. The first task confronting us, then, in dealing with the phenomena of the Discs, is to accustom ourselves to the concept of an etheric world and people, here among us and close at hand, and to learn all that has been learned and taught in the past concerning this world, not disdaining to start with A and B, but with D and E as perhaps not impossible goals.

- IV -

Part of the purpose of this 'information booklet' is to stimulate interest in the scientific problems involved. In spite of a policy of secrecy and an unofficial censorship, it is widely believed by this time that a number of ether ships of the Disc type have landed in the United States, through accident of some kind. We have no reports that any of the 'dwarf' occupants survived the landing, and we are told that the propulsion and control of these craft is very much of a puzzle to scientists who have inspected them. They are said to be without motors, propellers, or anything recognizable as a drive mechanism. This suggests, of course, some kind of magnetic propulsion. And the performance of these craft, their extraordinary speed, power and maneuverability far outclasses anything our own engineers have been able to achieve. Any race or nation possessing such aircraft could easily attain dominance of the skies and of the world whenever they so desired. Thus from both a practical and a theoretical standpoint it is of supreme importance that their secret be attacked with every resource of present-day knowledge.

Various articles have appeared giving elaborate descriptions of possible drives and controls used by the ether craft, but the absence of all such mechanism from the landed discs (if correctly reported) disposes of these conjectures. Nothing has been proposed so far which even begins to satisfy the observed facts, and it is the belief of this writer that principles are involved which are not yet known to contemporary science. Furthermore, it is likely to take an unusually enlightened and tolerant type of scientific mind to grasp these principles, even if and when they can be explicitly stated. It is a pity, for instance, that the energic character of mental or 'psychic' action (telekinesis*), so abundantly demonstrated, cannot be allowed its place in the domain of modern physics. Such energies will be recognized by the science of the future; but meanwhile, of course, any attempt to import such considerations even into our fast-developing 'super-physics' will meet with derision. In fact, only the 'free-lance' physicist, owning no allegiance to anything except the search for truth and indifferent to attack, will dare to suggest agencies of a psychic or psychological order.

It is in the hope of stimulating the interest of such 'free spirits' in this critical problem of 'Borderland' research that we print the following paragraphs, admittedly tentative and suggestive only, contributed to this booklet by Associates for whose mathema t-

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* Telekinesis refers to the movement of objects without known contact or employment of any recognized force or energy. The literature is extensive, but those who are interested may consult the six closely printed pages in Nandor Fodor's Encyclopedia of Psychic Science, article Movement. (Arthurs Press, Lon.,1933).

ical and scientific attainments we have the highest respect.

Memorandum concerning Disc propulsion, by J.A.H.

"In order to get any comprehension of etheric physics we have to get away from high school and first year college physics. Perhaps an analogy useful in this matter would be the following: A piece of steel one foot long and (say) ¼ inch in diameter, heated to 1000 degrees above normal (70) will stretch about .00734 inch, which doesn't seem very much. But suppose it could be done three million times per second, and suppose there were some means of making the stretch-and-relax work the steel piece along in one direction, like the inchworm. At three million jumps per second at 1000 degrees changing temperature, that bar would move at the incredible speed of 1,254.59 miles per hour. For us to do something like that with a piece of steel we would have to alternately peg the ends so that the bar would move in one direction.

"But suppose we had a substance through which we could send a 'heat wave' of three million cycles per second. The waves moving back at light speed (or even faster in the etheric plane) would cause the object as a whole to move forward, in a manner similar to the way a snail crawls by a process of ripples moving along its 'foot.' Against what does this phenomenon push? It doesn't! It's a pick-up and lay-down process in which the whole substance of the driving mechanism literally flows forward. I imagine the material of which the driving unit is comprised (it may be a bar or the skin of the ship) has a peculiar property which might be called localized heat transfer. If it is heated and cooled rapidly on one end, the hot and cold spots will travel along the bar. The process is not so much molecular as it is a space-time process. Heat, light, etc.are waves or vibrations in the absolute ether, so to speak. That is infinite, so there is no <u>where</u> in it. In effect, the waves in the bar stand still; the illusory shape or etheric substance flows along them by the process, in a molecular sense. And the luminous effect is the radiant discharge at the end, where the shape slips off the wave form. " *

Further comments, J.A.H)

"The ether ships could be of purely physical origin - they are the product of an advanced race. Propulsion by the use of physical matter is possible - it depends on how one looks at it. According to the occultists, the ethers are simply a large range of physical matter which we are not aware of as substance, and are only partially aware of as force. Of the seven divisions of the physical plane only three

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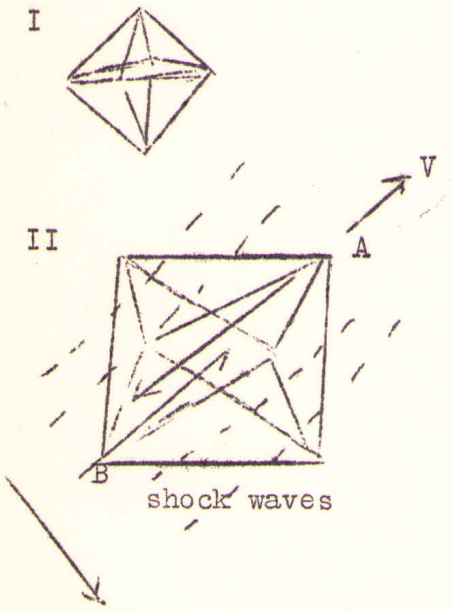
* The calculations giving the value 1,254.59 m.p.h., referred to in the first paragraph above, accompany the memorandum. But it is the brilliant tour de force of the second paragraph which comes to close grips with the basic propulsion problem.

are substantial to our consciousness; the remaining four are etheric matter. If in three divisions some 92-odd elements are found, and an almost limitless combination of these, with resulting properties almost fantastic in their nature - how much more will be found in the remaining four divisions of the physical world referred to as etheric?

"A combination of etheric elements (or say, higher physical substances) may provide a substance jelly-like to our range of consciousness, and rather dense and solid to an Etherean, which would transmit unidirectionally through its substance shock waves generated by alternate applications of heat and cold. I think such a substance would have a crystalline structure: that is, all its atoms would be arranged in an exact geometric pattern with respect to each other.

Suppose we had an etheric atom with an octahedral shape (Fig.I), in which a nucleus vibrated along one of the three diagonals (Fig.II). Suppose the normal place of the atom is at B, and that a shock wave in passing at an angle the particle at B literally jumps to A and delivers the energy of its motion to the whole atom in the direction of vector V. One shock wave past, there follows a lull in which the atom (nuclear atom) B, delivered of its energy, stands still in space while the whole atom floats forward, and the nuclear atom arrives again at its starting point at exactly the instant the next shock wave comes along and fills it with energy so that it takes off again for A. The atom as a whole will move forward in the direction of Vector V.



If the wholse substance of the shell or just some part of the 'disc' was energised in such a manner - even if the forward kick of each individual atom was in the order of an Angstrom unit, the final result might well be in the thousands of miles per hour. That would depend on how fast the shuttle motion could take place.

"There are also the energy considerations. The shock wave may be astral in origin as respects the disc, and that may be why we can't do it with electronics. That shock wave may impart to the shuttling atom an energy of one or more electron volts. Translated into atomic motion along the vector the aggregate of energy in the substance could be several millions of volts (e.m.f.) presenting a thrust of many thousands of pounds in a given direction. One hates to think what would happen if all those octahedral atoms got pointed in different directions. But then, the shock wave may be a controlling factor on that. Just the proper angle of approach to the atom must hold before the little atom will shuttle. Not only that, but the frequency

of the shock wave must correspond exactly with the length of shuttle path and the vector speed of the octahedral atom. Arithmetically, the velocity V of the whole atom equals the quotient of the mass of the shuttle atom x its velocity divided by the mass of the whole atom - V = Mv/ M. In fact, the nucleus or shuttle atom as we call it has the greater portion of the mass of the whole, the speed of the whole would become greater than that of the nucleus and the latter would be without further effect. Another reason why physical arrangements do not respond in that way to such stimulation. The inner particle of this etheric atom must consist of less mass than the outer shell or structure.

"This idea is inverse to the concept that the nucleus of the atom has most of the mass.

"The perceptibility of matter, to my way of thinking, depends upon the arrangement of its basic particles in any given atom. Atoms with heavy shells and light nucleii may be imperceptible to physical senses but quite visible to the clairvoyant faculty.

"There is no reason to think that a disc on becoming visible to us undergoes any basic atomic changes. We keep laboring under the delusion that the etheric is another plane. The visibility of the discs may be due to the adhering of physical debris, dust and the like, to the surface of its shell, drawn in by the fields created in its propulsion mechanism. They may have means of blowing the stuff off, hence their appearance and disappearance, trails of smoke, fire etc. However, when one of them 'cracks up' we are confronted with a quite different condition. It's hard to tell what the release of nuclear energies would do to the substance of the ship in a case of lost control. An atom with a light nucleus may be a mighty hungry fellow when its mode of control is gone, and might well get itself a heavy nucleus and absorb or release a great deal of energy in doing so - enough to do the occupants to a golden brown.

"Now, about that 'something to push on' idea. Not necessarily. Rockets move in a vacuum by reaction of the inertia of one mass with another. The shuttle atom does something of the same thing. The (astral) shock wave coming at right angles presents no reaction, it being on a higher level simply energizes the one particle in the whole atom - that moves forward along its path of least resistance until it again meets resistance at the opposite apex. There the energy of its motion is delivered to the whole atom and it falls back into its place again. Since the 'kick' comes from the shock wave external to itself and which affecfs only the shuttle atom, there is no kick-back to the whole atom. The shock waves are transmitted on the absolute ether (as is physical light and heat). And since every, any and all atomic structures are floating in that same ether, waves are necessary to make the atom go. Waves generated in an extraneous source - may be artificial or cosmic or planetary.

"Anyhow, those ether ships DO FLY FAST!"

- V -

Etheria - Home Plane of the Ether Ships: The Physics - Propulsion of Discs - other topics.

Comments of Assoc.) *
EDWARD SCHULTZ ...)

(THE ETHER PLANE): "There is ample evidence and authoritative opinion that this is a septenary universe, i.e., manifesting in numerical divisions and relationships of seven. This thread of evidence runs thru science, religion, occultism, art, metaphysics, and philosophy. There is also evidence that above and beyond the solid, liquid, and gaseous states of matter there are four states of etheric matter, each differing from the states 'above' and 'below' it. This has been recognized for centuries in the teachings of certain Schools and religions. We have a limited awareness of the first three states, but are oblivious of the other four except under highly specialized conditions. There is, it is true, some evidence of etheric phenomena becoming recognized by physical research, but on the whole they are, to us, a ghostly realm which does not respond to ordinary laboratory methods and instrumentation. Yet it must be self-evident that there is plenty of 'room' for separate planes or worlds of physical manifestation in the four etheric states just out of our ordinary reach. It is these regions, coexistent with and interpenetrating our own plane, that are referred to under the term Etheria.

Etherian science: "Not only must the etheric plane be postulated, but the abundant and irrefutable observation of thousands of persons, of 'flying discs' and other related phenomena gives evidence of the reality of the etheric worlds, and that it is inhabited by beings at least several centuries ahead of us in science, and probably in other respects as well. Their flying craft are immeasureably ahead of ours. They make the transition from one plane to the other, are independent of the air for support or propulsion, are highly maneuverable and can travel at speeds up to thousands of miles per hour. There is reason to suppose that they can and do travel to other planets of our solar system; and it is highly probable that if they are attacked or sufficiently provoked they can retaliate in a manner which would churn the newspapers and radio stations of the world into a frenzy of mystification and fear. Although these craft have been with us for a longer

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* Space available in this booklet compels us, regretfully, to abridge the first part of Associate Schultz's commentary. His Foreword states that his concepts are arrived at by a correlation of 'orthodox' science, metaphysics, and his own method of "Equimatic" analysis, yet "the ramifications of the subject are so complex and unprecedented that only trail-blazing generalizations are possible in a short article." Associate Schultz has held a number of highly responsible positions in organized research, and is the author of the booklet, Previsional Atomic Research, published by the Borderland Sciences Research Associates, (1949). $1.00.

timethan most of us suspect, our own science and technology, military and otherwise , have only recently entered into an era in which some of our developments (radar, A-bombs etc.) are beginning to manifest to the Etherians, in degrees ranging from a nuisance to a menace.

"The science and engineering of Etheria is doubtless subject to continued progress and improvement, but (we may conjecture) at a faster rate than ours, since they must long ago have evolved out of such nonsense as technological 'secrecy and security', and have done away with national boundaries and other artificial barriers. Some of their craft are undoubtedly experimental. It is practically certain that their interest in our plane has been increased by the explosion of atomic bombs. An obvious question is: why don't they try to make contact with us in some way? The answer probably is, that they have been and are in contact with us to a degree which serves all their present objectives. All they need to know is probably picked up by them through various communication devices, plus certain advanced means of psychic and telepathic perception. The torrents of material constantly being poured out by our radio stations on a world scale are of course open to them, and this alone would enable them to evaluate our culture and civilization. This does not mean that they might not, at any time, decide to make some direct contact. It is also possible that their time-sense may be quite different from ours, so that what may seem like a long time to us, without direct contact, may be a relatively short time to them.

(Some Aspects of Etheria): "We must not harbor the illusion that the four etheric states are ghostly and unsubstantial. They are a good deal more substantial than our so-called dense world, and it is we who are the "ghosts" of the physical realm. The distances between the atoms of our bodies and of all objects are as great in proportion as the distances between the stars. And I have reason to postulate, on evidence which has come to my attention, that the force of gravity in Etheria may be about twice that of our plane. Thus the navigators of etherian craft, in our atmosphere and sphere of gravitation, would experience a freedom of movement which they must learn to guard against.

"There is reason to suppose, also, that the 'lowest' of the etheric states (just beyond our gases) serves as a zone of demarcation between the planes, and that there is some overlap of phenomena of the etheric and of our world of matter, in this zone. Etheric matter will interpenetrate all things of our world ("etheric doubles"). Our sense of touch, pain, and temperature difference manifests through one or more of the etheric counterparts of our bodies. Drugs and anesthetics affect us through the same means. By means of hypnotism the functional inter-relation of the etheric double can be modified or even suspended. It will almost certainly be discovered that many diseases originate in this etheric component of the human organism.

"It will be accepted eventually, that certain laws of electronics function via one or more of the etheric states of matter. Certain nuclear and/or subnuclear physical particles or nucleons, it will be found, pass into and out of one or more of the etheric states of matter. And it is this fact which adds so much to the perplexities and bewilderment of our orthodox atomic scientists and mathematical 'long-

hairs' who have lately in their researches entered into a paradoxical Alice in Wonderland realm of physics, which 'makes little or no sense' within the framework of their scientific logic. They note how nuclear particles seem to pop out of nowhere and vanish without a trace, in an infinitesimal fraction of a second sometimes. The question as to whether an electron is a wave or a particle still defies orthodox physical logic and sense. The state of being and structure of an electron has been deduced to be a composite blur, and neither its velocity nor its location can be known simultaneously with the other factor. It is not yet known why the protons within an atomic nucleus, each with a positive charge, can snuggle together for billions of years in some elements, without being blown apart by mutual repulsion. Obviously, orthodox physics is fast approaching an impasse which will require that the laws of nature be interpreted in terms of all seven of the physical states of matter. After this is recognized we shall begin, very slowly, to catch up with Etheria - home plane of the flying discs.

(Theories of Ether Craft Propulsion):

"The speed, the control, and the acceleration powers of these craft bring up questions which are not merely academic but intensely practical. If we knew but part of the secret it would advance our knowledge by decades if not by centuries. For the present we have the following avenues of investigation:

A. The reported appearance and behaviour of all varieties of ether craft so far observed.

B. The above, analyzed in terms of orthodox science and engineering.

C. The above (A) analyzed in terms of borderland sciences and including metaphysics, constituting a highly specialized and advanced source of scientific information on this and associated phenomena, available to the Directors and Associates of "Borderland Sciences", some of this data being at least a century ahead of contemporary science.

D. The theorems, postulates and formulas of "Equimatic" analysis, at present the exclusive research tool of this writer.

E. It is hoped that to the foregoing will be added in due time an examination at close quarters of one or more of the ether craft, in case one or more of them is grounded for any reason - an event which may already have occurred.

"One major difficulty in solving the secret of the drive, is the fact that these craft almost certainly have more than one kind of propulsion, and that these are interchanged in accord with conditions or the medium in which they operate, in and out of our atmosphere. Some may be propelled in accord with certain objectives or experimental requirements. These are generalizations which are bound to be narrowed down with the passage of time.

"In working toward this worthy and difficult objective, BSR Associate John A. Hilliard recently blazed a brilliant trail of analysis in the presentation of his high-frequency heat-flow principle, outlined in another part of this booklet.

(MAT and DEMAT as a mode of propulsion): "At this writing and in accord with Etherian physics the following generalized theory of possible propulsion is advanced:

'When Etheria solved the problem of transition from their plane to ours (via their ether craft), i.e., materialization into our world, the principle may have solved the problem of propulsion at the same time. The laws of quantum mechanics apply to all planes of manifestation. It is plain that materialization and dematerialization would proceed in terms of quanta, i.e.,in exceedingly small or fine "jerks". The process could me made to alternate at will, and the quanta involved would at - ternate at very high frequency. If, after complete materialization, the fore and aft ends of the craft are caused to "mat" and "demat" alternately, at a high frequency, a propulsive effect would come into play.

'Let us suppose that the craft as a whole stays materialized but that only a relatively thin layer of the fore and aft parts undergo the "mat" and "demat" cycle. As long as this cycle were maintained in phase no propelling effect would come into play. However, as soon as the disc pilot put the cycle out of phase in favor of either the fore or aft sections, one part of the craft would be materializing as fast as the other would be dematerializing, and the sum total effect would be a flow in any desired direction, although, since this flow would be in terms of quanta, involving but small surface sections of the craft, it would be in a sense analogous to the mode of travel a caterpillar or inchworm.

'There is still another sense in which ether craft can be envisioned to 'flow' forward. At supersonic speed, which is but a crawl compared to disc speeds, our aircraft encounter so-called shock waves, sometimes referred to as a burble, which tends to shake, shock or disintegrate the aircraft. Without a doubt, the design and operation of the ether craft is such that, at supersonic speeds and much higher, the craft flows forward in phase with the shock waves or burble, and these waves help to propel the craft forward. Incidentally, the real secret of the so-called shock waves involves a yet to be discovered principle of physics , so unprecedented that our high speed plane designers and operators of super-sonic wind tunnels will be reluctant to believe their own operations or formulas. However, the "Equimatically" arrived at theory concerning this phenomenon would not be in keeping with the subject matter of this article.'

(Ether Craft Propelling Power Source):"It is certain there are no chemical processes involved, and that the source of power is based on an atomic energy or sub-nuclear process. They have, undoubtedly and long ago, discovered the secret of releasing and using atomic energy without the by-product of wasteful radiation and radiation hazards, which our orthodox physicists appear to take for granted as being forever inevitable. Even now there are ample clues to the release and use of atomic power without such hazards; but ... there is an officially decreed blindness on this and other matters of similar or greater interest. It is entirely possible and probable that the use of atomic energy by ether craft involves the transition of such

energy into other, intermediate forms, i.e., inter-related functions of heat, electricity and magnetism, the nature of which is but dimly suspected in our physics.

(An Ether Craft Drive Discovery?): "However great our ignorance of Etherian physics, it is entirely possible that certain isolated laboratory discoveries duplicate or foreshadow principles well-known to the Etherians. As one of such glimmers of progress let us take note of an item appearing in Science News Letter of Nov. 19, 1949, of which the full text follows:

> 'New Electronic Torch Can Melt Tungsten: Heat enough to melt tungsten, which melts at 3,370 degrees Centigrade and has the highest melting point of all the metals, is obtained with a new 'electronic torch' revealed by the General Electric Research Laboratory. It utilizes extremely high-frequency radio waves with such gases as nitrogen or carbon dioxide fed past the discharge arc.
>
> 'As described by Dr. J.D. Cobine, G.E. scientist, the heart of the torch is a tube known as a magnetron which produces radio waves of 1,000,000,000 cycles per second. Leading from the tube is an antenna made of two short metal cylinders, one within the other. A high-frequency arc can be made to form on the end of the antenna. If certain gases are fed past the arc, the electronic torch results. It resembles a jet of flame about nine inches long. The high temperatures produced on any surface placed in the jet are caused almost entirely by the heat generated by atoms joining together to form molecules, according to Dr. Cobine. The molecules of certain gases are broken up into atoms by the high frequency arc. These atoms join together again on surfaces placed in the torch. The jet itself is not necessarily hot.'

"Let me ask the reader at this point, to compare the foregoing development with statements made in an interview summarized below and dealing with the problem of the disc propulsion:

"...'I want to say that traction, or what would be termed the pressure from the outer to the inner, or as with wheels on a road, is created by the magnetic field they throw off - that is thrown off by the bodies of these discs. This is true of all of them, including the form that you call a fire ball. Yes, they operate outside the atmosphere, but the form of propulsion there is not different, only lower and higher rates of the same. The propulsion is secured according to the condition they enter into. Atoms are not single atoms; it is better to say a field, or a pattern, or a wave, or surface behaviorism. There is always surface. Going into the higher ethers there is a denser field; coming into the earth atmosphere the density grows less. . . .

" 'The radiation out of which these craft are built is brought about by mind activity; it is based in the order of phenomena called teleportation. This process always brings about extreme heat or cold. In bringing these manifestations into being, heat is first used. After

the body takes on the density of the earth plane it starts throwing off heat radiations, heat energy, at a terrific rate of speed. This heat strikes at the hydrogen and oxygen atoms around the object, creating what may be called a form of combustion. The combustion brings down the temperature of the object even as it is climbing again. This creates a magnetic field around the object, a traction for it, a road for it.

"'Yes' (in reply to question) 'the thrust might be called external in a way, because the heated object acts as both a magnet and a repeller It is extremely difficult to put into words. Yes, there is a heat wave which passes over the entire exterior of the disc. Have you noticed the glow around some of these objects? Some of them reach what you call white heat. This is heated and cooled at an extremely high rate of speed. We need the quantum theory to explain this. No, the heat wave does not affect the interior of the disc or the people in it. Yes, you can call it a pick-up and lay-down motion, with the expansion and contraction at quantum rates.

'Yes, I think such a method of propulsion could be used here, but the cost would be too high—to produce that kind of heat and that kind of material, which would have to be exceedingly tenuous. No, I do not know of any such substance at present. Yes, it would be a synthetic material. I think the most profitable line of inquiry for physicists would be to try to understand what the etheric is, apart from the gases. That would be the first approach - to try to understand this unseeable space around you. Also, to understand molecular motion. Yes, molecular motion applies to the ether. No, I do not know of any such thing as a substance which is not particulate - which is homogeneous.'*

"Lack of space prevents this writerfrom making a detailed comparison of the quoted paragraphs with the development described in Science News Letter. We may, however, particularly note the high degree of heat, the high frequencies, the fact that 'extremely high frequency radio waves' are really electro-magnetic in nature, and the reference

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* The speaker is an Oriental named Rama-Ka-Lo. The quoted passages are at least an interesting example of deep-trance communication by highly intelligent entities; we hope that it will be read on its own merits and without prejudice for or against. Communications of this quality have been received and studied for four years past by the BSR Associates, who wish here to make acknowledgment of the long - continued (and unpaid) services of Mark Probert, undoubtedly one of the most remarkable (and 'non-professional') trance mediums in the world. We print this communication and note, since it is the opinion of the BSR investigators that helpful and promising data from any source should never be rejected a priori through prejudice and ignorance, as is too often the case under the present attitude of many workers in the sciences. (Meade Layne).

to hydrogen and oxygen on the one hand, and nitrogen or carbon dioxide in the General Electric development. Note the reference to atomic be - havior in both cases, also to "surface" phenomena. Note especially that in the case of the ether craft, it is said that the heat does not af - fect the interior of the same, and that the jet in the G.E. development is "not necessarily hot," though it creates heat sufficient to melt tungsten, which has the highest melting point of all metals.

* * * * * * *

"For the governments of the world, including our own, the ether - craft phenomena offer no choice but to assume certain grave duties and responsibilities in regard to the enlightenment and protection of their citizens, i.e., -

** Not to obscure the facts, evidence, statistics etc. involved, by infantile "explanation", evasions, double-talk and rank incompetence so far as matters of this kind are concerned.

** No so-called 'projects' presumed to investigate and evaluate matters of this kind (whether in the open or behind a protective screen of 'withdrawal') can be anything but a farce, unless such in - vestigation includes the counsel of, and data from individuals and sources possessing a specialized and well-rounded knowledge of the factors and principles involved.

** There should be properly organized directives to all members of the armed forces to observe, study and report all ether craft and re- lated phenomena; together with a caution that such craft must not be attacked or provoked in any way.

** Various ways and means should be formulated and tried (openly or secretly) for communicating with the Etherian visitors - not only because of the unprecedented academic interest involved, but also be- cause our knowledge of a multitude of matters might be advanced by a century or more. It is almost certain that the 'Powers that be'might learn, via this avenue of wisdom, how to avoid an A- or H-bomb war. If not, and because our more civilized Etherian co-inhabitants of the planet have an equal or greater stake in the same, they may find it expedient to take matters of that kind into their own hands, in ways which would be peculiarly their own, but nevertheless effective.

** Since government processes of thought and action are notor - iously slow, befuddled and ineffective in matters of this kind, the ether craft phenomena offer an exceptional opportunity for private institutions of learning and research, or enlightened individuals with abundant means, to sponsor a research project or permanent nu- cleus of study in behalf of the objectives cited above. Writers and all publications have a high duty NOT to treat these phenomena with ridicule and thus deter reports and investigations. Our race MUST ac- cept adult responsibilities and realize, even at this eleventh hour, that certain things can and do happen for the first time." (E.S.)

COMMENTS OF ASSOC. M.C.*

"'Chemical matter' (matter of our 'plane' of daily life) is a limited product of what is called the third transformation, and is produced by the combination of astral atoms. There is only so much of it in existence and there is an end to it somewhere. It was a deliberate creation by sentient beings, and as such will eventually disintegrate when the supporting energies shall have run out. But there is a lot of it in existence, it has spread itself over a lot of territory, and each atom occupies a lot of space without actually filling that space. It is both 'heavy' and complicated without being dense. Compared to other kinds of atoms it is a large, roomy, open-work affair, which like the solar system, includes much space in its periphery. Also, like the solar system, its component parts are complicated and composed of a great number of fundamental units of primal-state matter. But the chemical atoms we know are simple structures compared to large scale primitive atoms of which they are the disintegration products.

"The catch is, that you can't get a chemical atom off by itself, and the other kinds of matter existing in the area it occupies account for so many more fundamental matter-units than the chemical atom contains, that the 'space' any given chemical atom occupies outweighs it times over from the point of view of a universal observer.** But human beings observe only the chemical atoms directly. Chemical matter tends to be pushed together in eddies or vortices, and we tend to get an upside-down idea of weight, which is not the product of attraction it seems to be. Inhabitants of a tub of water in which floating objects were gathering at the center of an eddy might reason that the chips were attracted to one another if they could not sense the existence of the water.

"There is little difference from the human point of view between space and matter in its primal state. Primal matter is the densest of all 'stuff' quantitatively. A given cubic volume of it contains more fundamental units than a given cubic volume of any of its combinations. All such combinations move within the ocean of primal matter, or of 'space'. Each successive combination occupies a larger area in that ocean than the preceding one. Chemical matter is thus the most complicated, the most spread-out, and therefore the least dense of all kinds. No matter how dense it seems when compared to other chemical matter, a cubic inch of lead is really a lacy lattice-work through which the space winds blow. And the 'veil' between the astral and chemical world

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* Associate M.C. is a contributor to magazines of national circulation, has been a life-long student of the sciences and of esoteric philosophy, and has made valuable contributions in the field of 'borderland' investigation and research.

** A cubic centimeter of water weighs one gram; its density is therefore one gram per cubic cm. Density is weight per unit volume. But if the etheric matter 'inside' the cube could be made to affect the scales the weight would amount to many thousands of tons and the density would increase accordingly. This matter is the 'space' referred to by M.C.

is little more than a size-gap; it is a real barrier only so long as perception is focussed in one direction or the other. This is the 'river' the dead cross to reach what is literally the 'next world' in the continuum we inhabit, i.e., to which we fasten our focus of awareness.'

'Again, concerning the 'Discs'. If they are indeed materializations, whether from the etheric of our own planet or of some other, * some shrinkage might be expected if they 'solidified' completely. The 'little men' might be quite as big as we are when they are at home. And the disc itself might be considerably larger. If they 'entered the air too fast' (as has been conjectured) and went out of control, they might also have accumulated chemical matter too quickly. If that is true they would surely have suffered the double effect of excessive shrinkage, and a heating up from the swift accretion and combination of chemical stuff. . .

'The idea of the origin of the Discs on Venus may be pure assumption, but I cannot be so utterly scientific as to disregard it on that account. Within the ramifications of the theory I play with, they could be both etheric and Venusian, since in that theory Venus supports an etheric civilization that was once (and may be again) in contact and communication with the chemical civilization of this planet. And if we assume they are Venusians, the stature question would solve itself with a much decreased shrinkage factor for complete materialization.

'Here is a bedtime story for you. Once upon a time there was a race of little people on this planet - little as compared to us at any rate. They were the dominant race and their influence made itself felt in all the habitable areas of the globe. They were great builders, and long after they were supplanted by other races and became a minority they continued to build, if only to heap the earth up into huge and symbolic mounds, the original purpose of which might have been much different from what we suppose it to be.

'They went somewhere. Emigrated, perhaps.

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* An important point, lightly touched upon in this booklet because of our wish to keep the exposition as simple as possible. But it is familiar teaching that not only our planet Earth, but all celestial bodies also, have an etheric region 'interpenetrating' with their substance and extending far around and outside of them. Hence to say that the 'Discs' come from Etheria does not necessarily mean that they come from the Etheric of Terra; they may originate in the etheric regions of Mars or Venus or of other bodies. But to say only that they 'come from Mars' etc. is to give an incorrect impression. When we see the planet Mars we are not seeing the etheric planet at all. To speak of them as 'space ships', meaning thereby visitng craft from other planets is correct only in this special sense, but not as the expression is certain to be understood. It ispossible and even probable that these craft are used for 'interplanetary travel' in this sense. And the 'distance' between etheric 'planets' is much less.

'Civilization is cyclic, and this is not the first time mankind has controlled the material elements. Indeed, there is reason to suppose that we of this earth are a long way behind, by systemic, and perhaps galactic standards.

'Maybe they went to Venus when an immigrating group threatened them with extinction - a bigger people, perhaps, from another chemical island in space. A people bred to a weaker gravity, who could not, in thousands of years of habitation of this earth, quite adapt themselves either physiologically or psychologically to the increased gravitational effect. A gravity so strong, to them, that it pulls their internal organs out of place, flattens their feet, and produces depression and insanity.

'Perhaps the little people come back now and then to see how the invaders have prospered. Maybe there was more than one kind of them and the little people hope that by now a Killkenny catfight may have ensued. Or, and this seems more likely in view of the structure of Venus (where the little people may have come from in the first place) they are just checking up, watching, wondering when one of the stocks will progress far enough in material science to rediscover space flight.

'The Venus Etherians would be more nearly chemical than the earth Etherians. They belong to a race whose dense bodies are such that they can employ chemical energies as we use fire and physical force. They could be well along the way toward chemicalization (from an earth etheric point of view) but not so deeply involved as we are. That could be a difficulty in a competition with a very chemical race for the possession of this particular globe. On Venus the disadvantage would not be so great, and the effect would tend to work in their favor. Venus would be cloudy to us in more ways than one, although the chemical material that agrees with ours would be present and substantial enough to us. The life of the planet simply wouldn't be so involved with it.'

'So (and this is not part of the bedtime story) I don't think all the 'space craft' are coming from the same place. And I'm not ready to reject the idea that they might be coming from Venus, Mars, or even Saturn - and still be piloted by people whom we would have to call 'Etherians'. . .

'"J" reminds me to add something about the Menehunes, the little pre-Hawaiian race that was still in possession of the Island, according to the Hawaiians, when the latter arrived. These little people could appear and disappear at will, and when they appeared they were quite chemical and solid. They built the first heiaus, those great platforms of lava upon which the Hawaiians erected their temples, and taught the Hawaiians useful crafts.' *

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* The Menehunes are far from being a fairy-tale invention; they have been seen in recent years and circumstantial accounts are available. Students of the HUNA lore are familiar with these. (HUNA studies are under the direction of Max Freedom Long, author of Secret Science Behind Miracles, Box 2867, Los Angeles 28, Calif.)

Comments of Max Freedom Long

(Max Freedom Long is Co-Director of the Borderland Sciences Research Associates; he is Founder and Director of the Huna Fellowship, and author of a distinguished book, The Secret Science Behind Miracles, published by the Kosmon Press in 1948).

"I am in full agreement with your opinion that the phenomena of the 'Ether-Ships' are of great importance and that the only explanation that seems remotely possible is that they are of etheric origin.

"Psychic phenomena such as apportation, transportation, and materialization offer proof that so-called solid objects of our plane can be made invisible and intangible, or, contrarywise, brought into manifestation from some such invisible source. If we cannot produce the original molds, the inference is that some conscious and intelligent entity is at the back of the operation.

"I cannot see how we can overlook this possibility after the accumulation of evidence that we have seen covering this strange changing, both in the seance room and out of it.* As to denial of the proven fact, that there is consciousness at work on the invisible and intangible levels, only the wilfully blind and ignorant are guilty of this backward step. However, sad to say, these two classes include most of the human race. If the "discs" and other ether-ships suddenly began to arrive in great numbers, the disorganization can only be imagined by recalling what happened when Welles staged his too-realistic radio play of the Mars invasion.

"To me the possibility of such an invasion on a grand scale is not improbable. Certainly it is not impossible in the light of what we have been seeing. A hundred years ago there was a wide-spread breaking down of the barriers between the two (or more) levels of consciousness, and a wave of spiritistic phenomena swept the civilized world. Now, with the appearance of these strange sky craft, coming from 'nowhefe' and vanishing into 'nothing', something very similar seems to be happening.

"In addition to the pressing and material problem of the ether-ships, there is a vast speculative background opening up. The mere existence of intelligent beings who are able to invade our world at will must profoundly affect every mind capable of reflective thought.

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* The writer of this note refrains, on the whole, from adducing arguments and evidence drawn from psychic and spiritistic investigations. Many of our readers will realize, however, that all of these data interlock, and that the time is coming and is in fact already at hand when scientific thinking will have to reckon with facts obtained in this way. Yet the existence of the ether-ships, and of the regions we name Etheria are facts of experience and of logical reasoning, quite apart from any 'psychic', 'occult' or 'spiritistic' data, and it is in this way that we have tried to present the whole matter, in order not to complicate the issue or awaken unnecessary prejudice and misunderstanding.

(Meade Layne)

"On the brighter side of the speculative picture we can imagine ourselves entering into friendly communication with the Etherian visitors, and profiting endlessly by their scientific knowledge and cultural achievements. On the other side a nightmare arises before us, of millions materializing in our midst and precipitating a struggle for existence that could only end in a tragedy of incredible proportions. The idea of making a friendly contact, or attempting to make one, has been broached heretofore, but from the point of view of our visitors the idea may be anything but attractive. They may well have learned what we have been doing in the way of mass murder in the past few years. They undoubtedly understood swiftly what had happened after we 'atobombed' Japan. If they were also aware of our religious and political situations the world around, to say nothing of 'vested interests', they would hardly fail to realize the danger of proposing advances in these fields.

"Seriously, what we face in the ether-ship situation is far from amusing. On the face of it we have what seems an equal chance of utter disaster, or of making in a few assisted years the leap from our present bedeviled condition into a comparatively 'golden age' of knowledge, reason and morality.

"Win, lose or draw - be the drawing only the inconclusive appearances of the ether ships - the few of us who are able to look the situation in the face without blinding prejudice, cannot do less than our best to spread the information we have on the possible and very probable etheric source of the flying objects, while at the same time we exert every effort to gain more knowledge."

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(We here supplement Director Long's comments with a summary (for whatever interest it may hold) of remarks made by a 16th century astronomer, Ramon Natalli (Italian). Please see Note to page 25, this booklet.

"There is around every planet and every body in the vast heavens, an etheric world. These bodies are governed by those in the Etheric. Every planet, including the earth, is under the control of its etheric counterpart. All these strange sky craft come from the etheric region of some particular planet. The Disc type come from the etheric region of Venus, and the design of the Discs is copied from Venus with its outer vibrating disc or ring... All such craft must pass through the etheric region of the earth and must have permission of the Etherians to pass through. Each comes from its own particular rate of vibration, which is an unseen pattern of the seen body. They have often crossed the Milky Way. They are not 'solids'; their solidity is formed according to where they are going and what their mission is. They make their vibration conform to that of the body they approach. Their matter is so formed thatit can be driven, by the operative force of mind, at speeds much exceeding that of light. But there is no 'matter' or 'stuff' as you use the word, which passes over the enormous gulf of space. For such speeds here and there do not exist; space-time is a continuing here-now... But you must have your 'laws' and theories, of course! . . . .

Sect. VI) THE "ETHER CRAFT" OF OAHSPE

Students of the curious book called Oahspe will recall a great number of references to flying craft of many kinds. Mr. Wing Anderson, 'C'Chief'of the Essenes of Cosmon, writes -

'Flying Discs - Ethearean vessels - Atmospherean firesships - Oahspe is loaded with them! The references I enclose are only a few of them, since many ships referred to in the text are not listed in the index. In one place a jet propulsion ship is described. It is my opinion that flying discs are not etherean in the Oahspean sense of this word, but rather 'atmospherean', and that their propulsion is probably from utilization of Vortexia, a primary energy. But the relation of these Oahspean vessels to the various craft now being seen in our own skies should be carefully studied ...'

Mr. Anderson supplies the following page and verse references: Page 196 - 3,4: 167 - 24,25: 134 - 14 to 23: 732 - 17 to 21: - 464, Ch. III, 2: 320 - 14,15: 123 - 7 to 12: 733 - 12,13: 734 - 9: 316,317 - 18 to 21: 142 - 5: 98 - 3,4: 138 - 4 to 11: 312 - 10: 108 - 2,3,4: 109 - 16: 290 - 18: 56,57 - 2 to 14: 470 - 3: 63 - 21,22,23: 412 - 11s 15 & 16 a: 25 - 1 to 7: 19 - 1, line 10,11,12: 14 - 13: 257 - 7: 170 - 11 to 14: 87 - 8,9: 306 - 14: 144 - 19, 21: 521 - 2,4: 522 - 15: 494 - 15: 395 - 6: 178 - 8: 751 - 5, 8: 496 - Ch. xvii Sect. I: 202-6:

Also p. 24 - 8,9: 30 - 16: 49 - 1: 51- 7: 74 - 4,5: 135 - 20: 145 - 9: 173 - 12: 192 - 9: 458 - 2: 467 - 1

Mr. H.M. Wagner (De Funiak Springs, Fla.) also supplies many of the same references and includes - (American Edition):

Page 8,v. 12, &16,17: p. 54 - 5: p. 74 - 4,5: p. 402 - 5: p. 454 - v. 8 top sect. - p. 463 - 3: p. 464 - 2: p. 486 - 2 ff: 487- 1.

Accounts of 'ether ships' carrying millions of human spirits and Gods are, of course, utterly fantastic at first glance. But, as we have pointed out, there is practically nothing else in the omniverse but room - i.e., 'space' not occupied by visible matter; moreover, we are here dealing with concepts quite outside our ordinary space-time world.

NOTE: Essenes of Kosmon; a cooperative Order largely devoted to the study of Oahspe; Montrose, Colorado.

"Atmospheria": 'Spheres or Plateaux surrounding the whole earth'.

"Etherea": 'The emancipated heavens beyond Chinvat, the bridge or boundary of the Earth's vortex, beyond the orbit of the moon'.

Oahspe was 'mechanically written' through the hand of Dr.J.B.Newbrough: 1st Ed., 1882; one of the most extraordinary works ever produced. About 1000 pp. The "Book of Cosmogony and Prophecy" (one of the 35 books making up Oahspe) is packed with an extraordinary kind of super-science which is impressive and powerful, whatever one's 'belief' in such matters may be.

AND IN CONCLUSION: (Section VII)

Every fact and object and event which enters our experience be - longs equally to science, philosophy, and religion, unless by narrow definitions we exclude them. An electron, a star, a pulse beat or a thought are all and each proper subjects for scientific analysis, each presents the most profound problems of metaphysics, and each may well awaken the impulses of awe and worship when the sense of its mystery grows strong upon us. This is true even of dreams and delusions and errors, for these too are factual things, forms of experience, existents in their own way and right. If you add a column of figures and add it wrongly, the "mistake" is as much a fact and as much a mystery as the "correct" result would be. No "explanation" is ever complete and final, all phenomena of our plane belong to the "borderland", and all are deep-rooted in the vast sea of cosmic life and energy of which we know so little.

At times the borderland character of certain happenings becomes obtrusive, compelling, and important to the whole of humanity, and this is eminently the case with the phenomena of the Ether-Ships. The data about them are factual and empirical, but the science of our day remains, up to the present at least, quite helpless in dealing with them. Men of scientific reputation have remained cautiously silent, or in some instances have joined or led the popular chorus of derision and incredulity. For the press, the radio, the screen, and the 'man in the street' the whole affair has been at once a huge joke and a huge folly. No more bitter commentary on the state of our contemporary culture could be imagined. And yet from the first there have been a few who accepted the facts without question and who understood in some degree their profound significance.

But when we say that the science of our day is helpless in the face of this problem, we do not impugn the science of tomorrow - that is, of the years to come. This science of tomorrow is now called 'occult' and 'esoteric', and these words in turn connote de - lusion, superstition, and deceit. So it has been in the past, and so it must continue to be, through a shortening future. One could fill a book, quite easily, with ideas, concepts, predictions of an "occult" order, regarded contemptuously in their time, yet later accepted, restated, verified, integrated in one form or another with acceptable scientific thinking. The "occultism" of today is the science of tomorrow. This thought is hateful to some, but it is a true thought and history bears witness to it. It is to the "occult scientist" or the scientifically trained occultist that the future of our culture belongs - if by chance it survives what seems to be its impending debacle.

The Ether Craft, the Etherians, and the Etheric Worlds exist, and man has always had some knowledge of them. Occultists and Adepts have always known about them. Modern science has seen no occasion either to accept or reject. Etheric phenomena, like those called 'psychic' and 'spiritistic' have been outlawed as sporadic and with-

out significance. But little by little these latter two have gained disturbing importance, and now, all at once, by a single coup , the Etheric Ships have become a hard amazing fact for everyman's knowl - edge. A sour impossible, unexplainable but factual experience, which somehow has not been wiped away by jeers and denials and smug superiorities. It is the old and repetitious smug-sad story, which most of our 'intellectuals' have never learned, perhaps never will learn. But most of us, for all that, would like to learn a little something from some source about these strange disturbing visitors, and we ask our scientists and intellectuals and get no answer at all. But since we have said that all phenomena are "borderland" in last analysis, and that occultism has forerun science many times, and is itself the science of the future, let us at least inquire of this source. Let us ask, and hear what the occultist has to say (since there is no one else to listen to) - and then if it seems even worse than the maunderings of other alleged authorities, we can put it easily aside. What does occult investigation reveal, and what does occult authority reveal if we consult it as a last desperate resource?

In the first place, the occultist confirms a number of statements already made in this booklet, and elaborates them, and adds others. The ether ships, the Etherians, and Etheria are real, though their existence for the most part is outside our range of sense perception. Our earth, all planets, all stars, all heavenly bodies, even all terrestial objects h a v e . etheric duplicates. The celestial bodies have also their etheric spheres probably concentric with the visible body but extending far beyond it. These spheres, instead of being separated by astronomical distances, actually interpenetrate. To pass from one to another does not mean to traverse distance, but only to change a vibratory rate or a condition of consciousness. The clairvoyant who has etheric vision does not 'go anywhere', he simply begins to see what is invisible to most of us. These etheric worlds have their inhabitants, each according to its kind - and the number of such worlds is perhaps as 'infinite' as the number of the interpenetrating ethers themselves.

It is in these etheric worlds that the Ether-Ships of all forms originate. Etheric matter is responsive to thought-energy. Any object can be created by thought, will, and imagination; and it does not lack reality for that reason. Ether craft are made in this way in the Earth's Etheric, in the Etheric of Venus and Mars, very likely in other regions also. That does not mean that they are made on the visible planets. These craft can be, are, and always have been used for interplanetary flight. It is said that they penetrate the galaxies of the Milky Way. And the craft best known to us, the Discs, originate in the Etheric of Venus and their form imitates the disc-like appearance of that planet.

This assertion about interplanetary travel raises, for us, the problem of enormous distances and the time required to traverse them, even at speed exceeding that of light. From the occult point of view, however, this problem hardly exists. These craft are mater-

ial in our sense of the word, when in regions adjacent to our earth. They are always material when the word matter is used in its most ex-tended sense - for even the finest ethers are still particulate, and may properly be called material, though possessing properties unknown to the rarefied matter of our own plane. We can probably say, that during 'transit' their materiality is that of a thought-form.

Let us look at this matter from another angle, even though the alleged facts will be unacceptable to many readers. Remember, we are only trying to find out what a student of occult matters might say if we could get him to 'talk down' to us. We are all making thought-forms at every moment; clairvoyants can often see them and it is easy to impress them on photographic plates. Also, we can send these forms to any place we may desire, irrespective of time and distance. It takes no longer to think about the star Arcturus than about your finger-tip. If you think an image of yourself, you can place it at the north Pole as quickly as into the next room. Neither the time nor the distance enter into the operation at all.

Let us recall a short and profound saying: You are where your consciousness is. For if not - where else? Put ALL of your consciousness into the next room - and where are you? If you can find an answer which destroys this aphorism, you can uproot all the occult philosophies in the world at the same time.

Now, the skilled occultist, the Adept if you like, makes a thought-form of himself, or projects his consciousness which takes on a form, and this form may be and often is visible and tangible at some distant place. He can also make a thought-form of a dog or a wolf (for example), and under special conditions this also may be seen and heard and touched. By this line of reasoning (and of facts) he can make an object (say, a Disc) out of mental matter, mind-stuff, and under right conditions it too may be seeable and touchable at whatever place he desires. This is not teleportation of an object. His thought 'materializes' in mental matter, then subsequently in etheric matter, finally in matter such as is known to our senses - if the operation is carried that far.

In a sense, a Disc or any object made in this way is alive; it is in-formed by the mind-life of its maker. It is a kind of extension of the parent mind, just as every thought is, in some way and degree. The destruction of such a form is only like the cessation or withdrawal of a thought or effort of the will.

Innumerable questions of course occur to one. If these Discs are, in their inception, creations of thought, we can see how an experimenter on, say, Arcturus, can place his mind-created Disc thirty-three light years away, in the earth's etheric, just as easily and quickly as anywhere else. But then, apparently, once inside the earth's atmosphere this materialized craft begins to employ means of propulsion, and if it chances to come to a 'forced landing' (?) we find it has an extremely hard metallic shell. Further, there are those 'little people' whose bodies were found inside.

The basic difficulty we find in connecting these facts, comes simply from our profound ignorance of the properties of etheric matter, and of its behaviour when played upon by mind-energy. We do have analo-

gous phenomena on our own plane, in projection, telekinesis, materialization, and forms of extended sensory perception (ESP) - even though the run-of-the-mill scientist may not accept any of them. An object created by thought energy anywhere in the omniverse, may conceivably be placed at any desired point in our atmosphere and made visible and tangible to us, but the sequence of transformations involved (or the teaching concerning them) is not known to this writer. It seems to be true that a craft made of etheric matter (invisible to us) may still use a mechanical means of propulsion while outside our atmosphere; then use a variant of the same mechanical means while inside and visible. And whether the ship was mind-made in Polaris-Etheria, or Venus-Etheria, or Earth-Etheria, it was a thought-construct to begin with, as truly as a box or a table is an idea in the mind of its maker first of all. The carpenter thinks out his table in detail; that's making it in "mind-stuff"; then he uses mind-body energy to fill in his mind-stuff pattern with what we call 'physical' and 'dense' wood-stuff. That's 'materializing' it. We can then see and touch his thought-form for the first time. (A good clairvoyant, of course, can see it as a thought-form sometimes, and sometimes it can be impressed on photographic plates). This mind-origin of our whole 'objective' world (in some sense) is a truism both of philosophy and of speculative science. But the existence of things in astral-etheric-mental matter is largely closed to us because of the limits of sense-perception.

The question is often asked: if the Etherians visit us mainly to gain information about conditions here, and for their own historical archives, why go to the trouble of ether craft construction? Why not obtain all such information by projection of consciousness in one mode or another? An answer appears to be, that they are intensely desirous of awakening earth people to an awareness of other forms and regions of life than our own - for our own sake and for theirs also.

It is the opinion of the present writer, that our present civilization and culture have reached an impasse, for which there is NO solution in the 'normal' course of events. And whether we make H-bombs or leave the making to our enemies, we shall come to the same destruction from them. The real problem is the underlying selfishness and fear - and these are incurable by any means which we can and will use. But it is possible (even probable) that great events, either of a 'supernormal' order, or great cataclysms of Nature, may so stun and dominate the minds of men, that they will turn aside from old thoughts and consider ways of brotherhood and mutual understanding. It is probable that this thought is in the minds of our Etherian brothers also, and that as a last resort they may intervene, with all impartiality, in our tangled earth affairs.

This booklet has been compiled under considerable pressure, as a matter of public service, and the organization of its material has suffered accordingly. We ask the tolerance of our readers for such defects. At the same time, we hope for active cooperation, and invite the opinions and criticisms of all who wish to write to us.

M.L.

BORDERLAND SCIENCES -

The BORDERLAND SCIENCES RESEARCH ASSOCIATES is a loosely organized group of persons interested in facts and events which 'orthodox' or official science cannot or will not investigate. Examples of such sub - ject matter would be the "vortexes" of the West (where the laws of gravity seem distorted), mysterious appearances and disappearances of persons and objects. phenomena of teleportation and apportation, materialization and clairvoyance, various effects of atomic fission, the problem of the underground races, the healing techniques of Huna, the effects of "Vitic" (carbon emanations), the Morley-Martin experiments in a-biogenesis, the experiments of C.W. Littlefield, the Koch treatment and other treatments for cancer, a great number of recent etheric phenomena, and currently the problem of the "flying discs" and other strange sky craft.

The BSRA is not a cult or belief and carries on no propaganda. Its members, however, are willing to employ any method of research which yields valuable information, whether or not it be acceptable to official science. Its principal publication is the Round Robin, which has been issued for five years past.

The BSRA has consistently operated as a non-profit organization. Its publishing expenses, however (including office rent, clerical help, mimeographing and office supplies generally) are considerable. It has therefore been necessary not only to make a charge for all publications but to accept donations as well.

The subscription to Round Robin (9 issues) is $3.50. BSRA membership alone, $1.00 per quarter; this entitles the member to all bulletins and releases, but not to Round Robin. The combination of these two (Round Robin plus BSRA membership) is $5.00, and is the arrange - ment preferred by nearly all the Associates.

Headquarters of the BSRA and its publications is at 3524 Adams Avenue, San Diego 16, California. No 'phone, but the Director can be reached at his residence before 8:00 a.m. and between 6:00 and 7:00 p.m., at Talbot 2872. The Directors are Max Freedom Long, F.H.F. (Los Angeles - the Huna Fellowship), and Meade Layne, M.A., at the San Diego hdqrs. They solicit the cooperation and support of all BSR Associates, and all friends and readers of Round Robin and other BSRA publications.

ADDENDUM TO THE BOOKLET

A mimeographed page dealing with the psychic side of the investigations into the phenomena of the Discs (v. Note to page 25) may be had on request if not included in this booklet. Please send a stamped and self addressed envelope to relieve pressure of clerical work.

NOTE: A number of references to Oahspe (p.32) furnished by Assoc. H.M.Wagner were accidentally omitted; the correct list should appear in Round Robin VI-2.

THE ROUND ROBIN -

This is a factual and non-sectarian publication issued in the interests of the Borderland Sciences Research Associates, and of all students of psychic, occult, parapsychological and "Fortean" phenomena. Mimeo., about every six weeks. Editors: Meade Layne, M.A., F.H.F.,Max Freedom Long, F.H.F. Associate Editor: Harriet Foster. $3.50 for nine issues; in conjunction with BSRA membership (bulletins and releases), $5.00. About 40 pp. An idea of the content of RR may be gathered from the following

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ISSUE V-4: The Fire-Walk -- What thenis Magic? --Firewalking -- Fire Immunity -- Tahitian Fire Walk - Statistics - The Lokas -- Communications from the Mark P. Seances - Book Review... ISSUE V-3: Huna and the Telepathic Experiments -- Two Inventors Return (J.G.E.Wright)-- Flying Discs - Koch Treatment -- The Hoxsey Treatment -- Toxic Effect of DDT -- Miracle of the Rose Petals etc.

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Round Robin is published at the Headquarters of the Borderland Sciences Research Associates, 3524 Adams Avenue, San Diego 16, Calif.

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